ZB5CW113

white square projecting illum pushbutton head Ø22 spring return for integral LED



Main	
Range of product	Harmony XB5
Product or component type	Head for illuminated pushbutton
Device short name	ZB5
Product compatibility	Integral LED
Bezel material	Plastic
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Square

White projecting unmarked

For insertion of legend

Spring return

Complementary

CAD overall width	30 mm
CAD overall height	30 mm
CAD overall depth	34 mm
Product weight	0.024 kg
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m
Mechanical durability	5000000 cycles

Type of operator

Operator profile

formation

Operator additional in-

Environment

Environment					
Protective treatment	TC				
Ambient air temperature for storage	-4070 °C				
Ambient air temperature for operation	-2570 °C				
Class of protection against electric shock	Class II conforming to IEC 60536				
IP degree of protection	IP66 conforming to IEC 60529				
NEMA degree of protection	NEMA 13 NEMA 4X				
IK degree of protection	IK05 conforming to EN 50102				
Standards	UL 508 EN/IEC 60947-5-1 EN/IEC 60947-5-4 CSA C22-2 No 14 EN/IEC 60947-5-5 EN/IEC 60947-1 JIS C 4520				
Product certifications	LROS (Lloyds register of shipping) RINA CSA UL listed DNV (Det Norske Veritas) BV GL				
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6				
Shock resistance	30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27 50 gn for 11 ms half sine wave acceleration conforming to IEC 60068-2-27				

Dimensions of Heads for Spring Return Illuminated Pushbuttons, for Light Source Types

LED

ZB5 AW3•3, ZB5 AW3•3S, ZB5 AA•8







ZB5 AW1•3, ZB5 AW1•3S, ZB5 AL•8





ZB5 AW9•3





ZB5 AW5•3





ZB5 CW3•3







ZB5 CW1•3







Bulb with BA9s Base Fitting

ZB5 AW3•, ZB5 AW3•S







ZB5 AW1•, ZB5 AW1••S

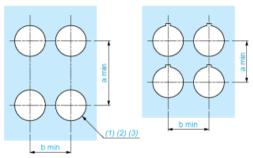
mm in





Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

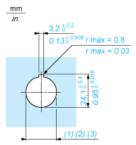
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$)

Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

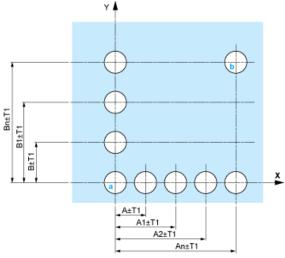
Detail of Lug Recess



- Diameter on finished panel or support (1)
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5 AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

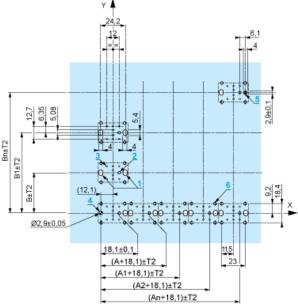
Panel Cut-outs (Viewed from Installer's Side)



A: 30 mm min. / 1.18 in. min. B: 40 mm min. / 1.57 in. min.

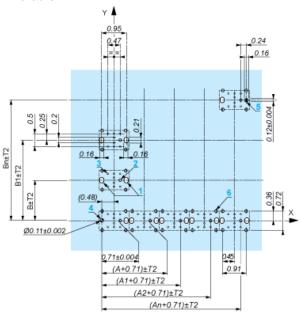
Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min.

Dimensions in in.



A: 1.18 in. min. B: 1.57 in. min.

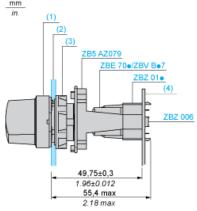
General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 mm max.

Installation Precautions

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB4 BZ009: ± 2 30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ 006: 0.6 N.m. max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
 - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
 - o with each selector switch head (ZB5 AD•, ZB5 AJ•, ZB5 AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



- (1) Head ZB5 AD•
- (2) Panel
- (2) Nu
- (4) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm \pm 0.05 / 0.09 in. \pm 0.002 holes for centring adapter ZBZ 01•.